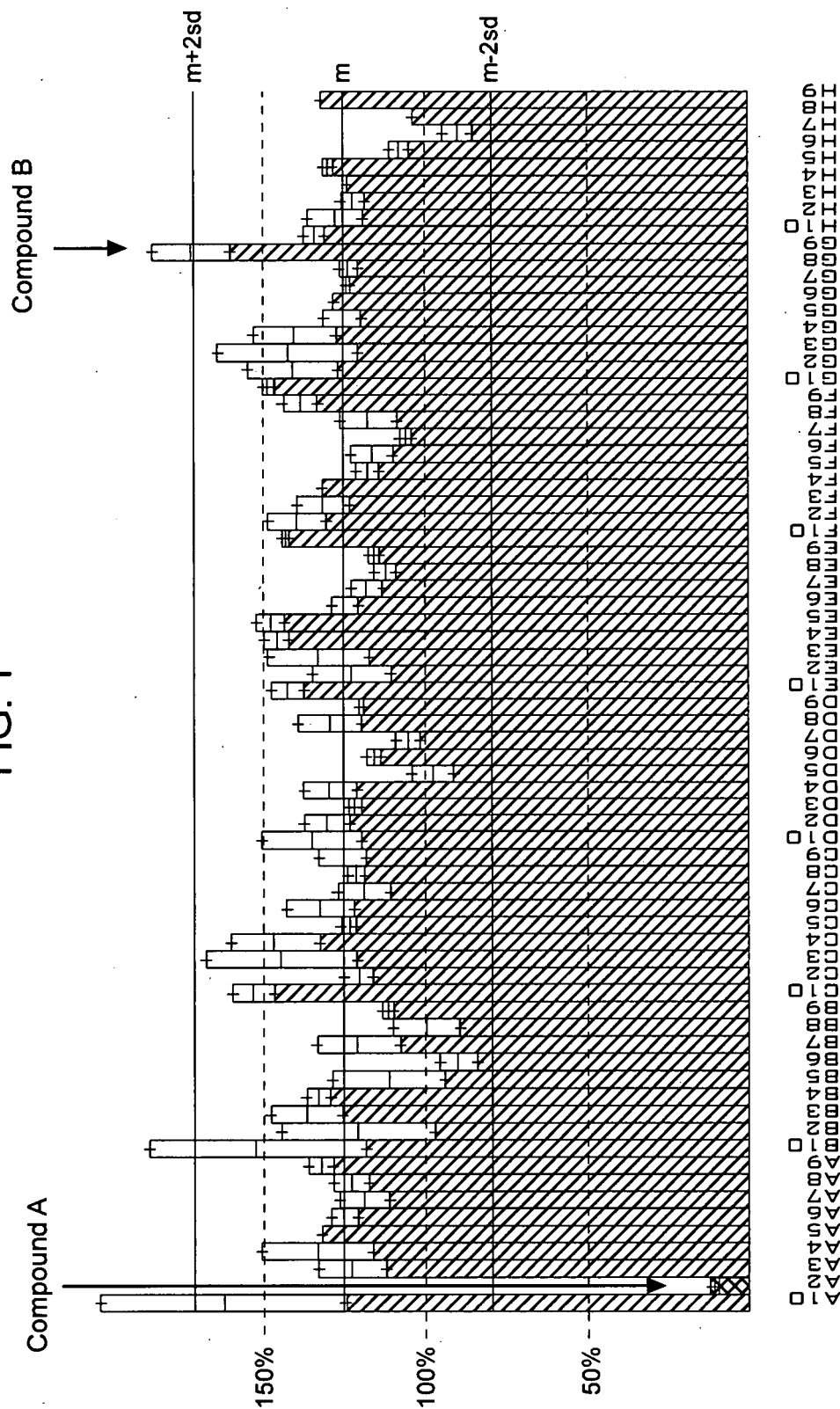


FIG. 1



REPLACEMENT

FIG. 2A

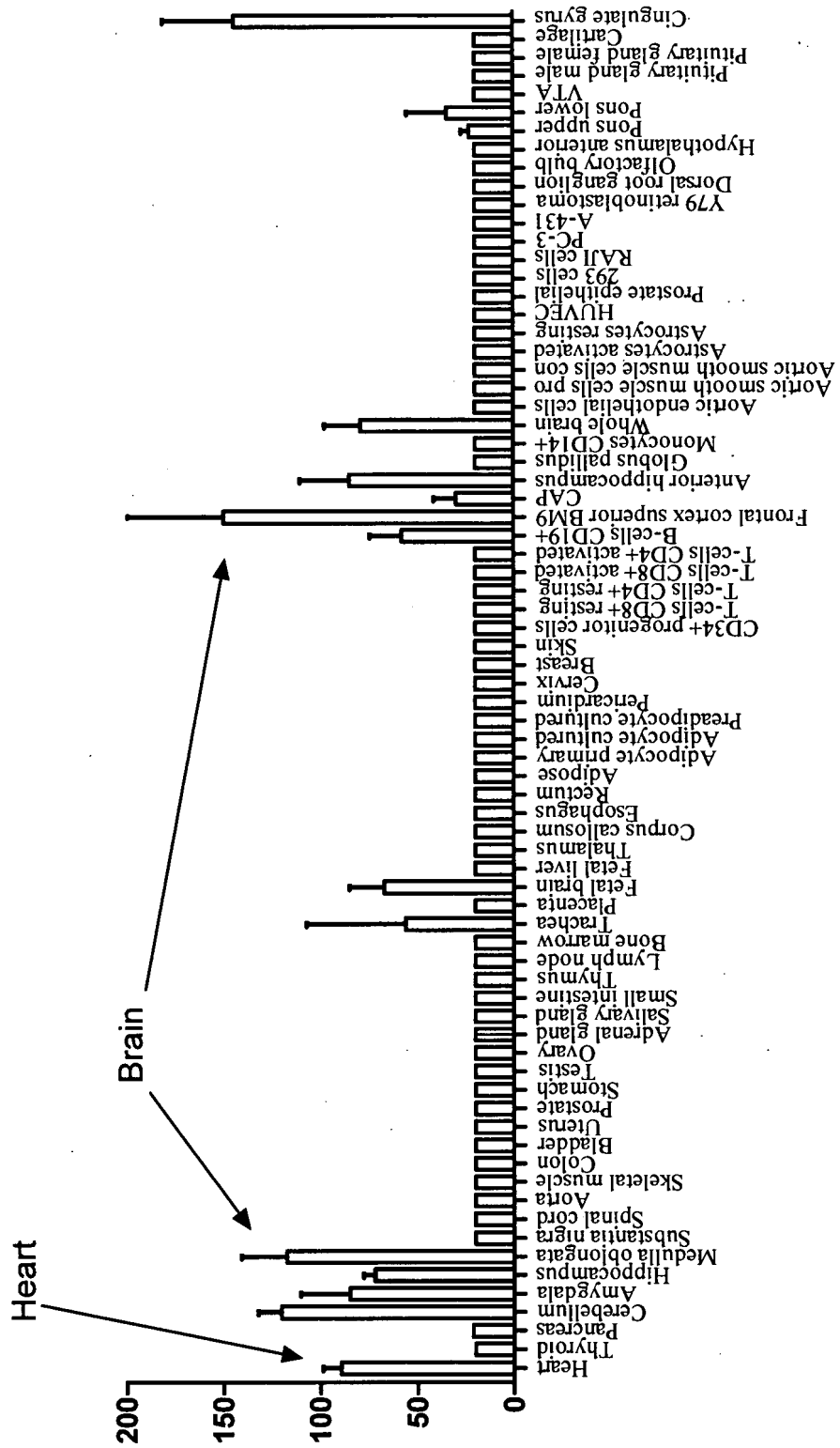


FIG. 2B

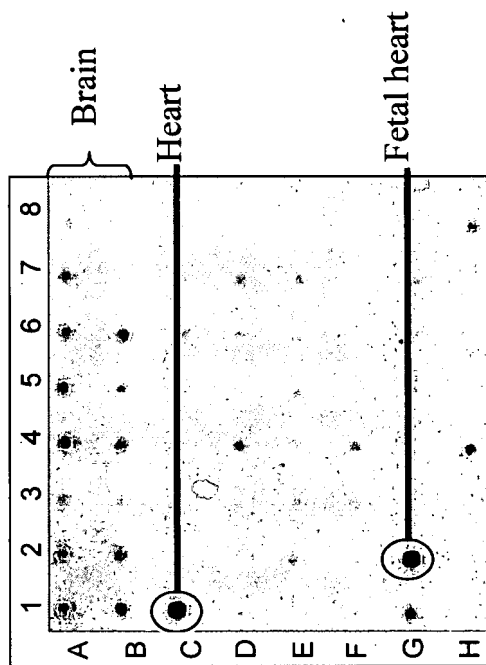


FIG. 2C

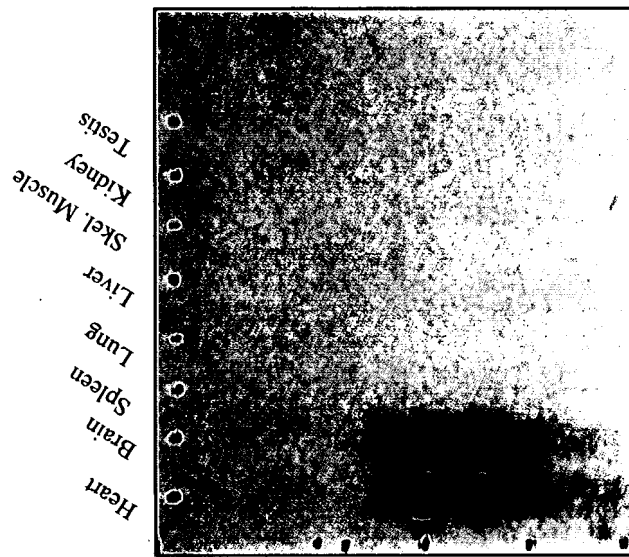


FIG. 3

**In Situ Hybridization:  
RUP41 Expression in Adult Rat Heart**

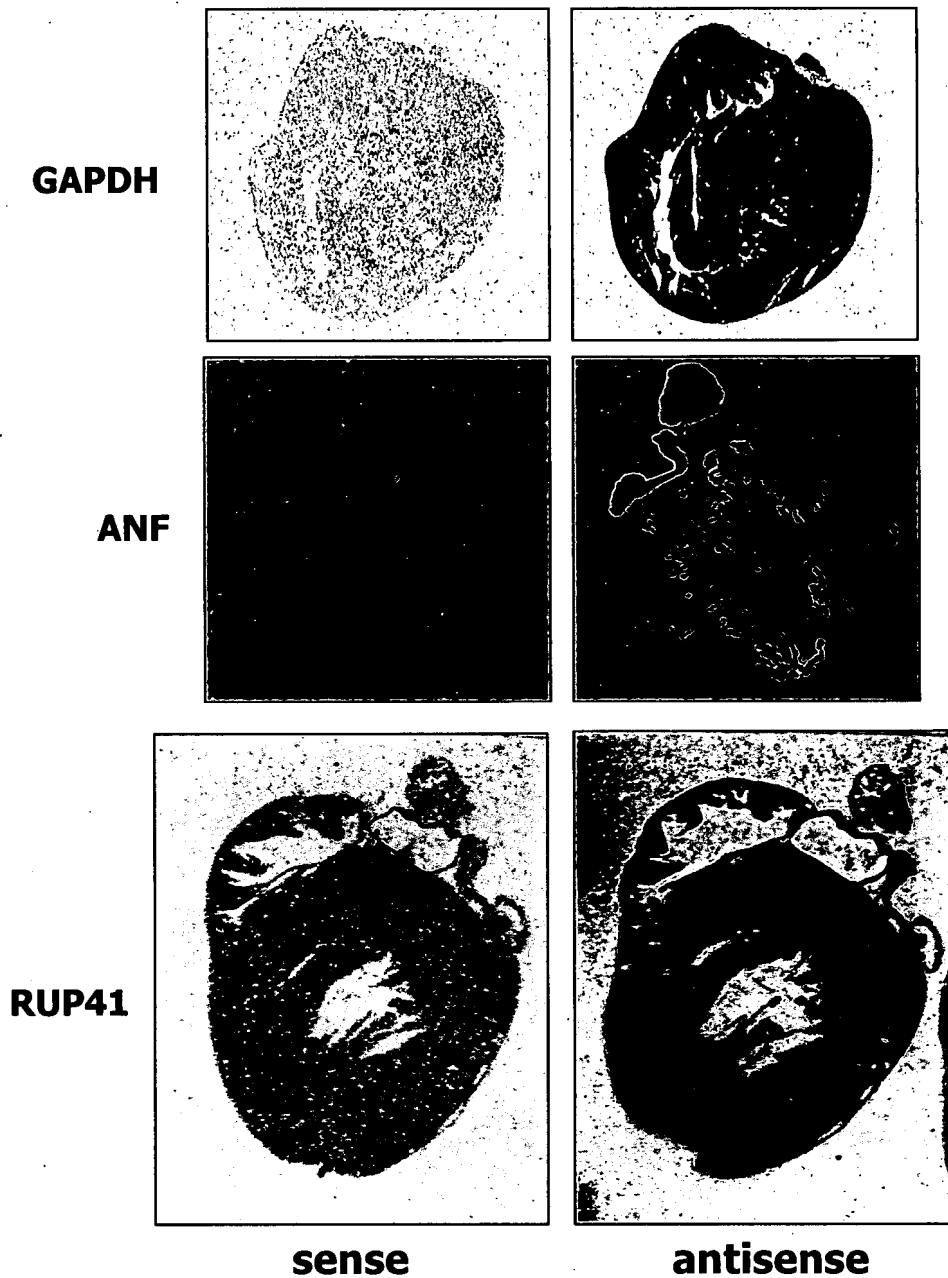


FIG. 4

**Down-Regulation of RUP41 in  
Hypertrophied Neonatal Rat Ventricular Myocytes**

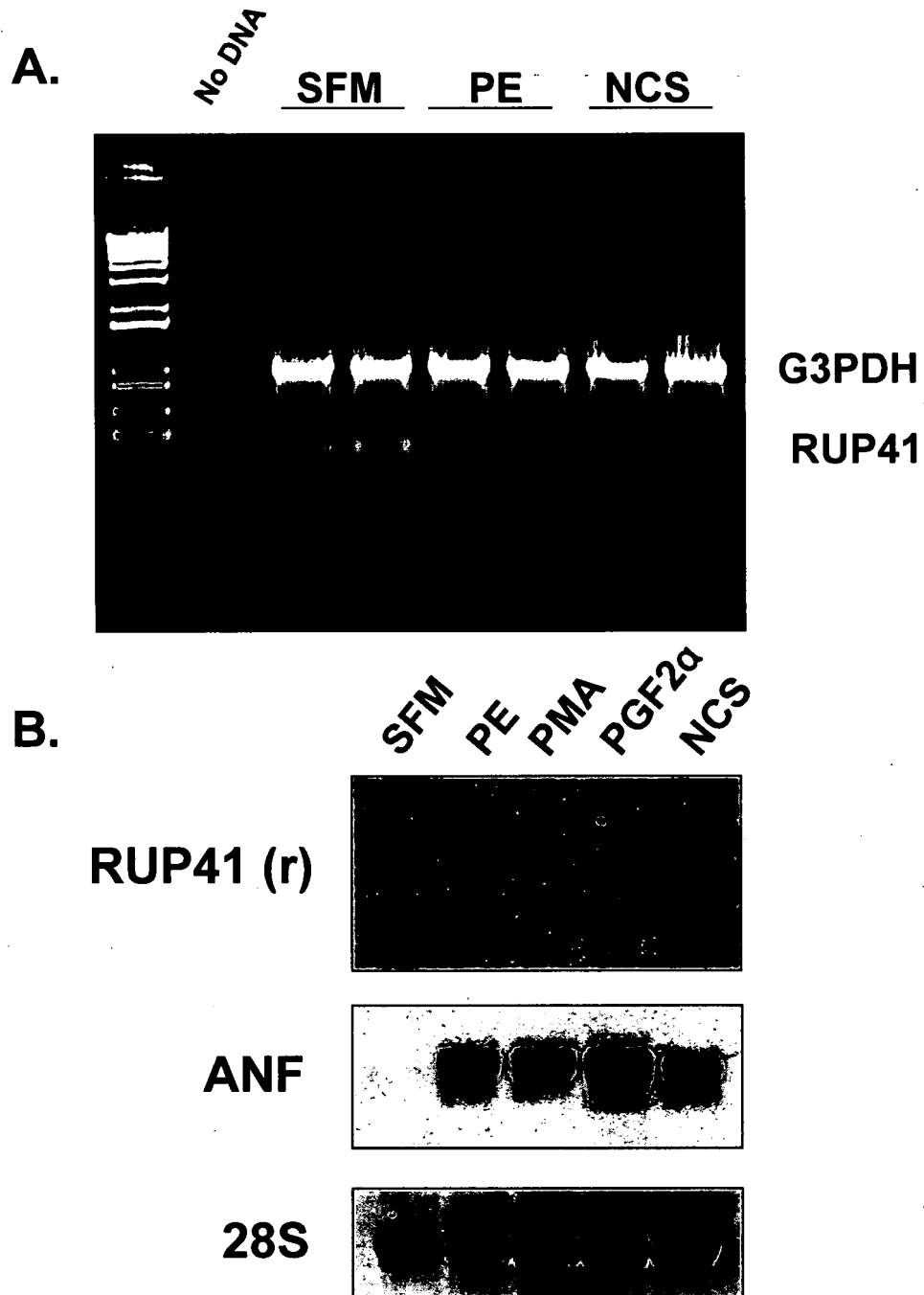


FIG. 5

Down-Regulation of RUP41 in Mouse Hearts  
Subjected to Pressure Overload Hypertrophy

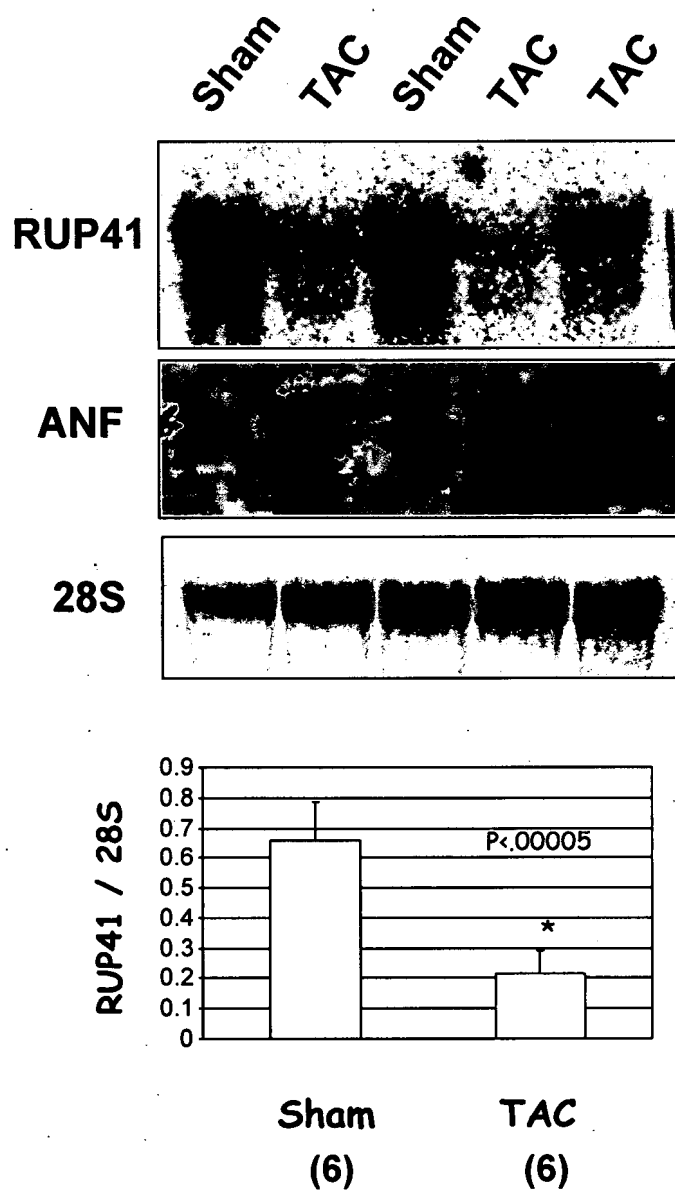


FIG. 6

**Down-Regulation of RUP41  
In NRVMs Subjected to Hypoxia**

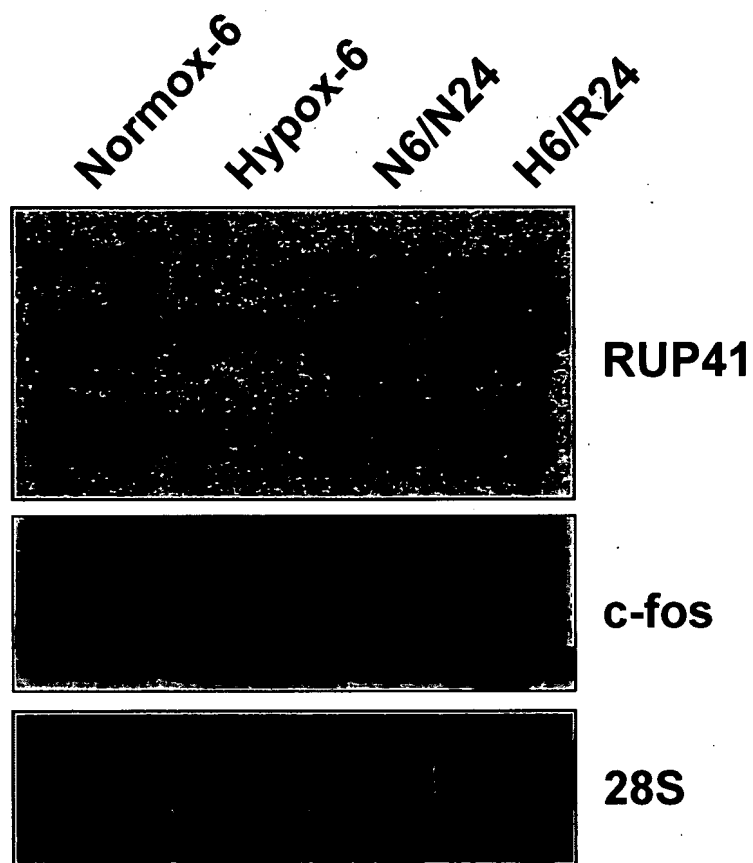
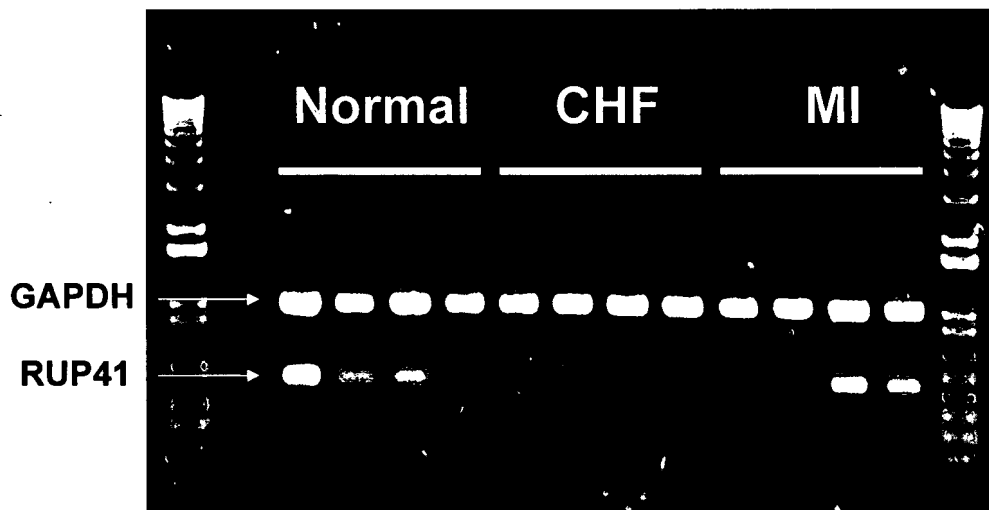


FIG. 7

**Down-Regulation of RUP41  
In Humans with Congestive Heart Failure**

A.



B.

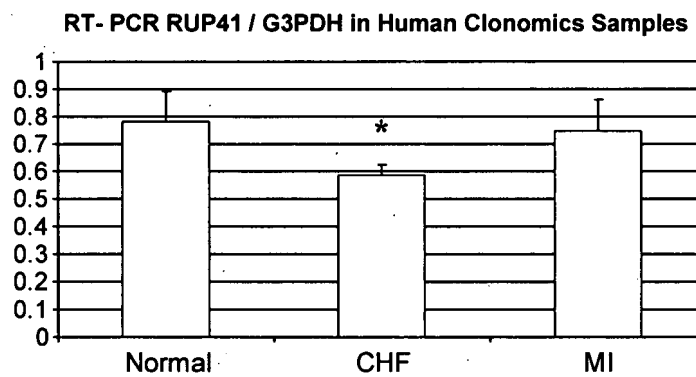
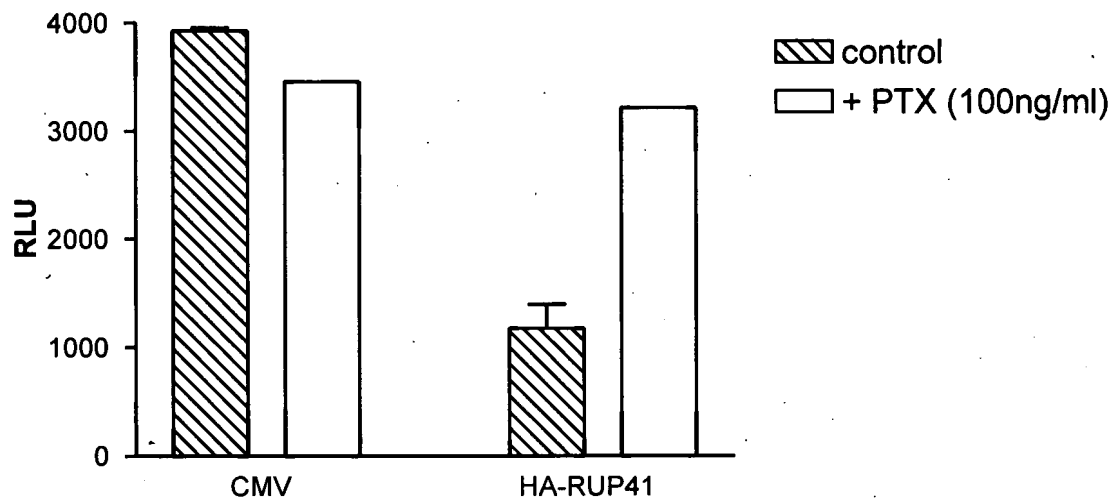




FIG. 8

**RUP41 Couples to Gi in COS-7 cells  
cotransfected with TSHR-A623I**



**Stimulated by 1 $\mu$ M forskolin**

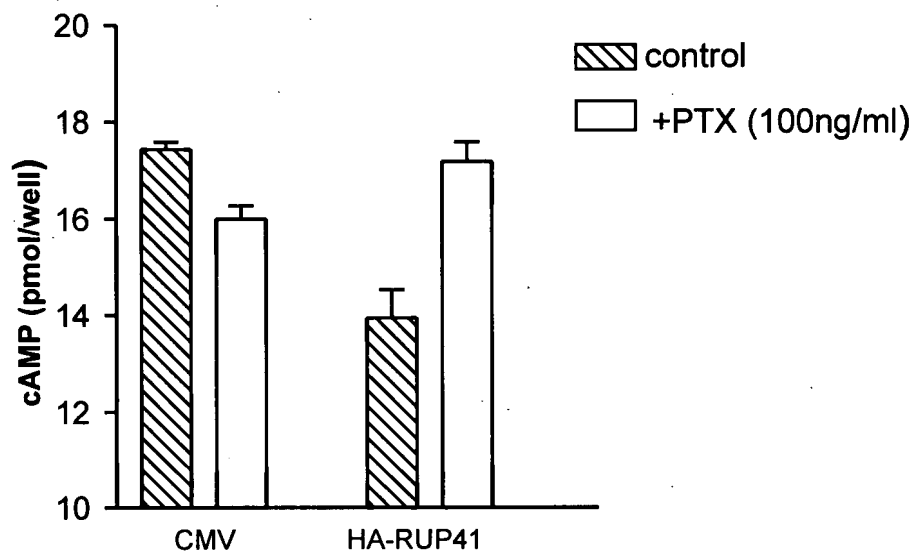
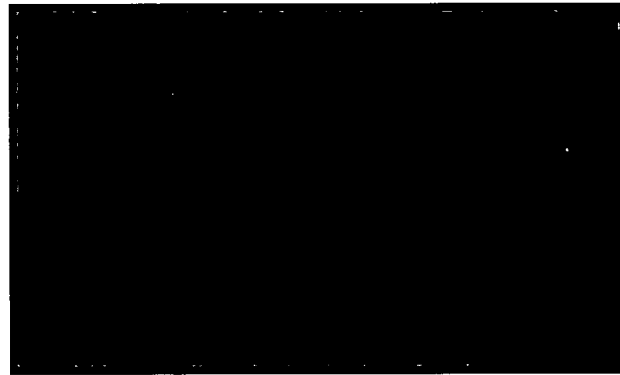


FIG. 9

**Adenovirus-Mediated Over-Expression  
Of RUP41 Promotes Survival of NRVMs**

**A.**

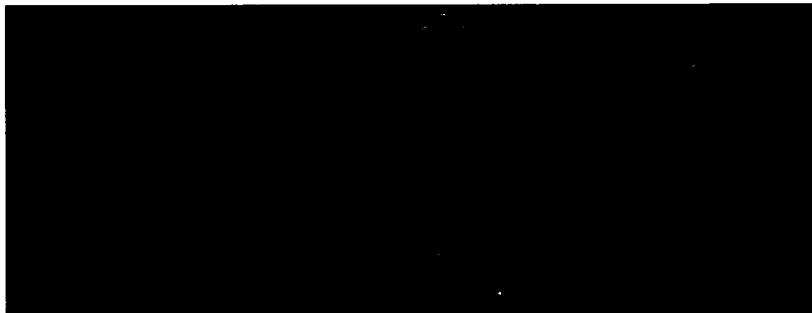
PFU/Cell 0 0.1 0.5 1 2 5 10 20 50 100



Endogenous  
RUP41 transcripts

AdRUP41  
transcript

**B.**



No Virus

AdRUP41

FIG. 10

**Over-Expression of RUP41 Rescues NRVMs  
From Hypoxia/Reoxygenation Induced Apoptosis**

